LTE Band 5

Peak-to-Average Ratio

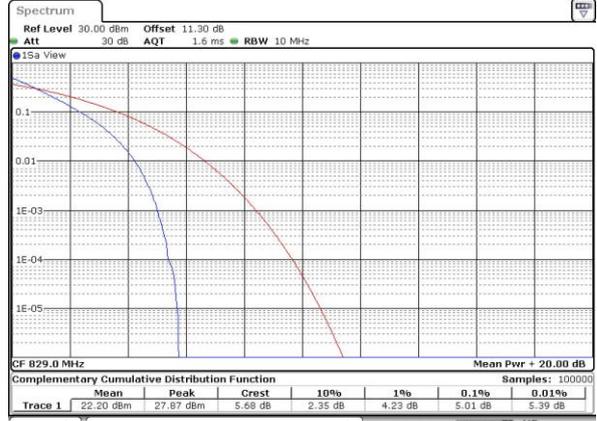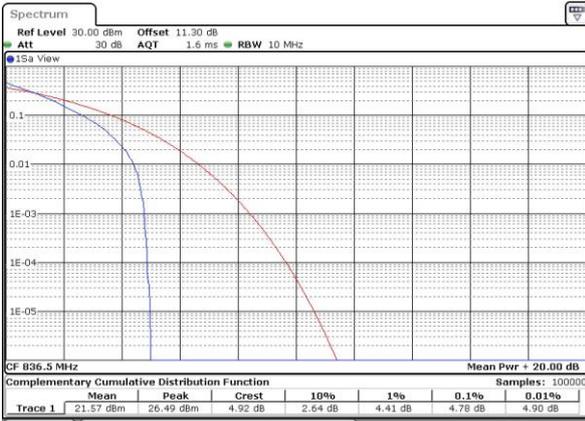| Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.83	5.01	4.78	5.77	
Middle CH	4.78	5.16	5.42	6.17	**PASS**
Highest CH	4.58	4.96	5.19	5.74	

LTE Band 5 / 10MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**

Lowest Channel / 1RB	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.56 dBm	25.47 dBm	3.91 dB	2.26 dB	3.59 dB	3.83 dB	3.91 dB
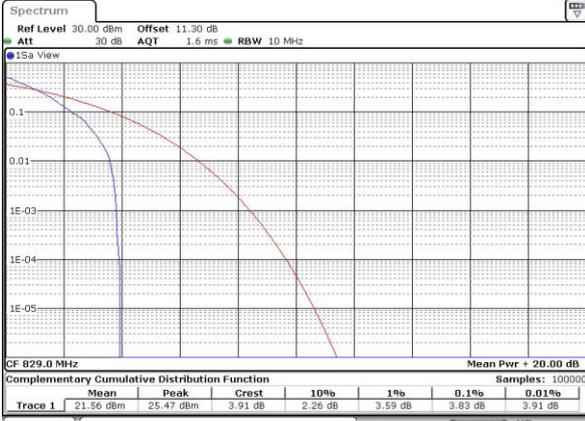
Date: 2.NOV.2015 22:39:13

Lowest Channel / Full RB	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	22.20 dBm	27.87 dBm	5.68 dB	2.35 dB	4.23 dB	5.01 dB	5.39 dB

Date: 2.NOV.2015 22:39:24

Middle Channel / 1RB	**Middle Channel / Full RB**

CF 836.5 MHz

Middle Channel / 1RB	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.57 dBm	26.49 dBm	4.92 dB	2.64 dB	4.41 dB	4.78 dB	4.90 dB

Date: 2.NOV.2015 22:39:35

CF 836.5 MHz

Middle Channel / Full RB	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	22.13 dBm	28.15 dBm	6.01 dB	2.41 dB	4.32 dB	5.16 dB	5.68 dB
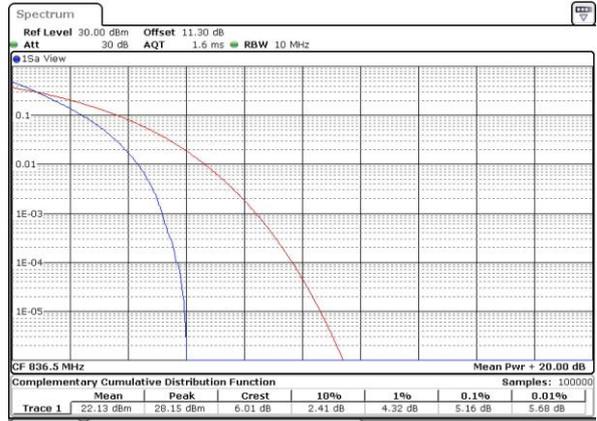
Date: 2.NOV.2015 22:39:45

Highest Channel / 1RB	**Highest Channel / Full RB**

CF 844.0 MHz

Highest Channel / 1RB	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.51 dBm	26.19 dBm	4.68 dB	2.72 dB	4.20 dB	4.58 dB	4.70 dB

Date: 2.NOV.2015 22:39:58

CF 844.0 MHz
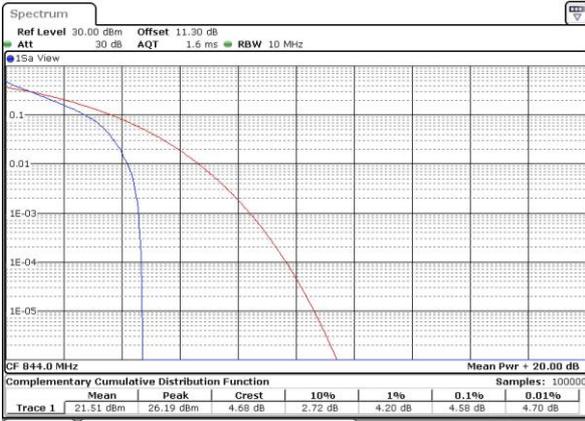
Highest Channel / Full RB	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	22.07 dBm	27.88 dBm	5.81 dB	2.38 dB	4.14 dB	4.96 dB	5.36 dB
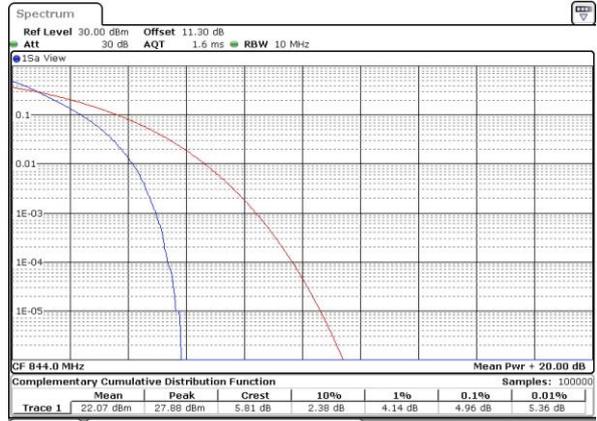
Date: 2.NOV.2015 22:40:10

LTE Band 5 / 10MHz / 16QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**

Lowest Channel / 1RB

CF 829.0 MHz   Mean Pwr + 20.00 dB
Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.68 dBm	25.55 dBm	4.87 dB	2.75 dB	4.29 dB	4.78 dB	4.87 dB

Date: 2.NOV.2015 22:37:48

Lowest Channel / Full RB

CF 829.0 MHz   Mean Pwr + 20.00 dB
Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.20 dBm	27.69 dBm	6.49 dB	2.84 dB	4.72 dB	5.77 dB	6.35 dB

Date: 2.NOV.2015 22:37:58

Middle Channel / 1RB	**Middle Channel / Full RB**

CF 836.5 MHz   Mean Pwr + 20.00 dB
Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.18 dBm	26.77 dBm	5.59 dB	3.01 dB	4.81 dB	5.42 dB	5.57 dB

Date: 2.NOV.2015 22:38:17

CF 836.5 MHz   Mean Pwr + 20.00 dB
Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.15 dBm	28.19 dBm	7.04 dB	3.01 dB	5.01 dB	6.17 dB	6.78 dB
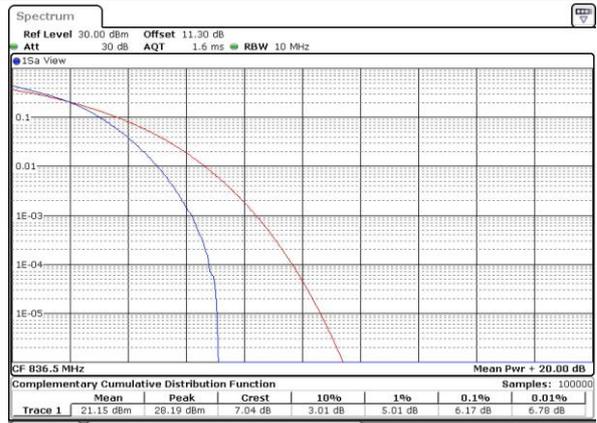
Date: 2.NOV.2015 22:38:30

Highest Channel / 1RB	**Highest Channel / Full RB**

CF 844.0 MHz   Mean Pwr + 20.00 dB
Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.80 dBm	26.08 dBm	5.28 dB	2.87 dB	4.75 dB	5.19 dB	5.28 dB

Date: 2.NOV.2015 22:38:41

CF 844.0 MHz   Mean Pwr + 20.00 dB
Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.07 dBm	27.69 dBm	6.62 dB	2.90 dB	4.81 dB	5.74 dB	6.35 dB

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26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.24	1.26	3.01	3.03	4.96	5.02	10.01	9.97	-	-	-	-
Middle CH	1.25	1.23	2.99	3.01	4.98	4.93	9.81	9.75	-	-	-	-
Highest CH	1.23	1.26	3	3.04	4.84	4.93	9.95	9.73	-	-	-	-

LTE Band 5	
Lowest Channel / 1.4MHz / QPSK	**Lowest Channel / 1.4MHz / 16QAM**
Middle Channel / 1.4MHz / QPSK	**Middle Channel / 1.4MHz / 16QAM**
Highest Channel / 1.4MHz / QPSK	**Highest Channel / 1.4MHz / 16QAM**
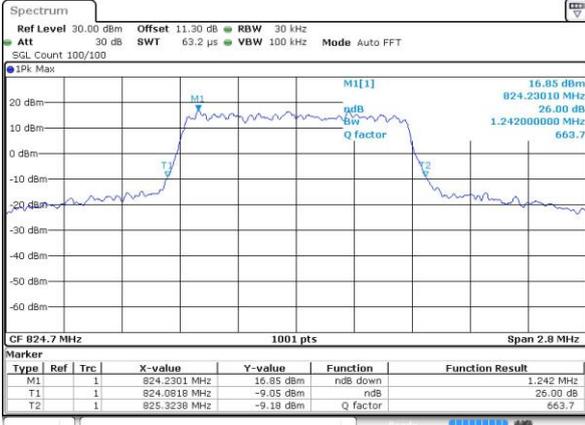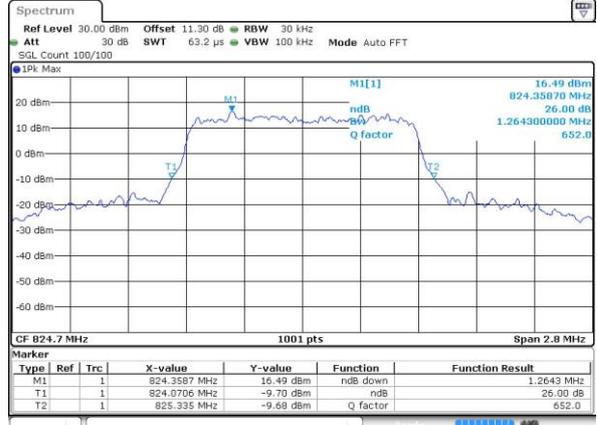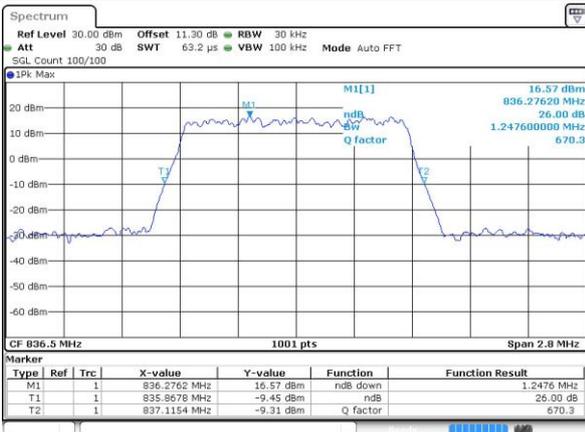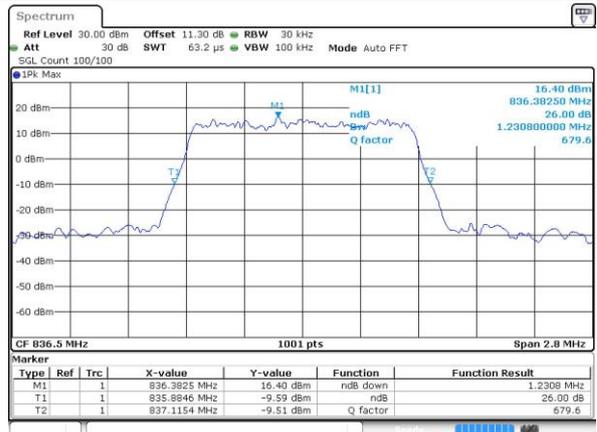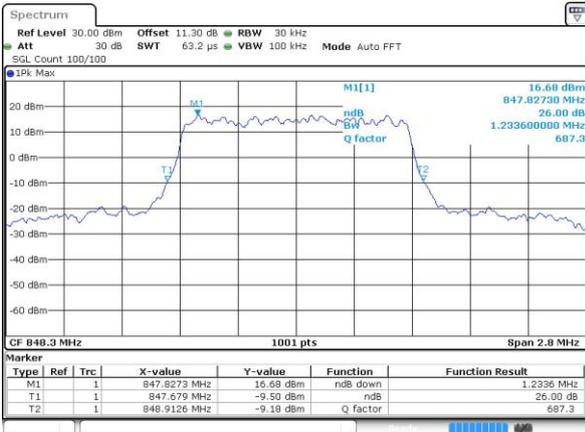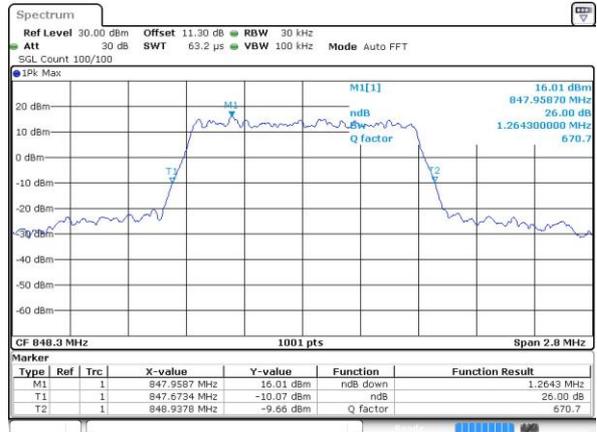
LTE Band 5	
Lowest Channel / 3MHz / QPSK	**Lowest Channel / 3MHz / 16QAM**
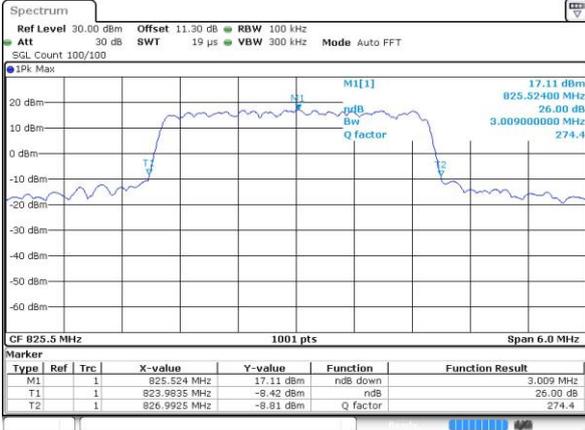
Date: 2.NOV.2015 19:28:13
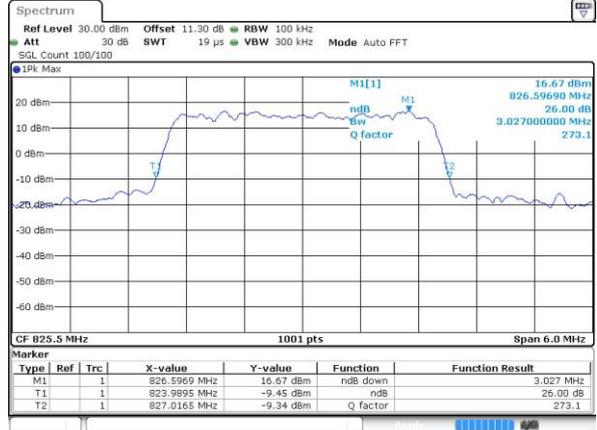
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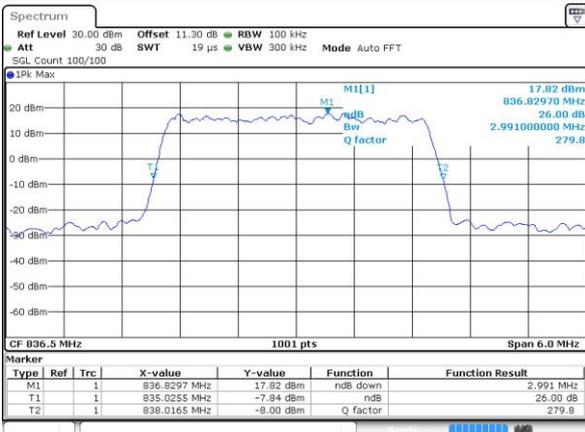
Middle Channel / 3MHz / QPSK	**Middle Channel /3MHz / 16QAM**

Date: 2.NOV.2015 19:38:21
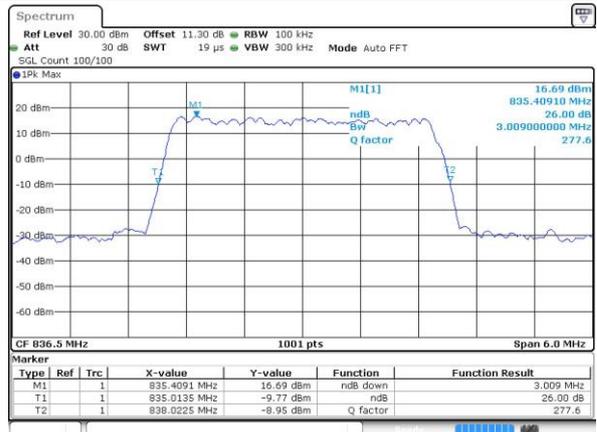
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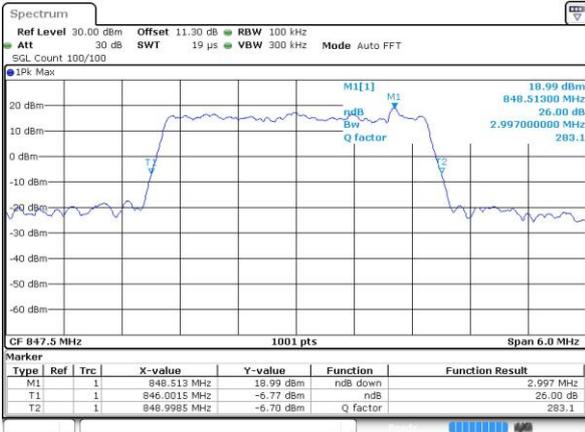
Highest Channel /3MHz / QPSK	**Highest Channel /3MHz / 16QAM**

Date: 2.NOV.2015 19:40:52
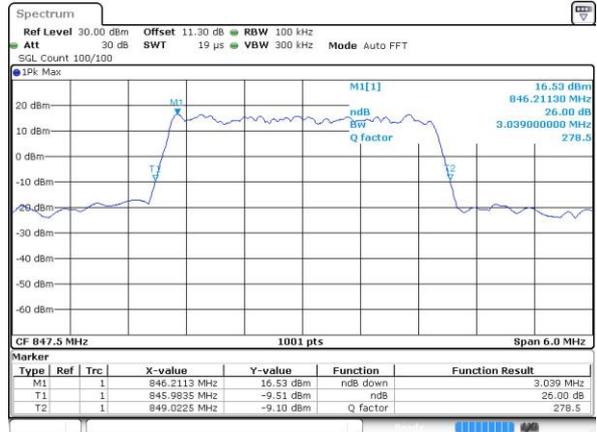
Date: 2.NOV.2015 19:41:03

LTE Band 5	
Lowest Channel / 5MHz / QPSK	**Lowest Channel / 5MHz / 16QAM**
Middle Channel / 5MHz / QPSK	**Middle Channel / 5MHz / 16QAM**
Highest Channel / 5MHz / QPSK	**Highest Channel / 5MHz / 16QAM**
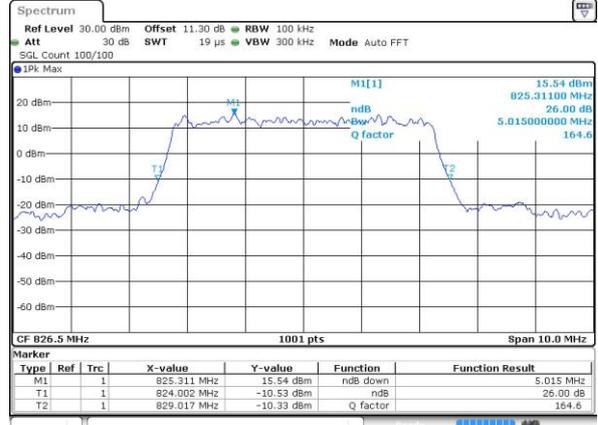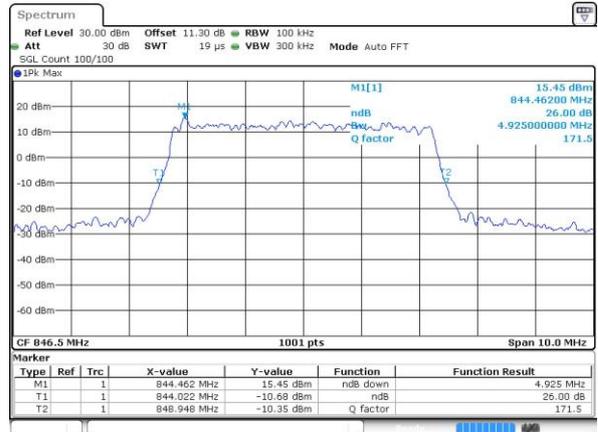
LTE Band 5
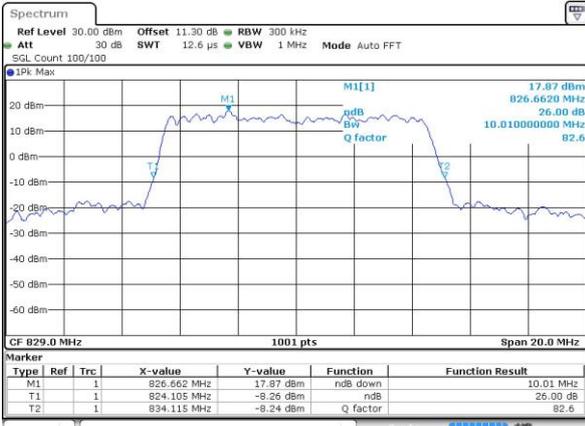
Lowest Channel / 10MHz / QPSK	Lowest Channel / 10MHz / 16QAM
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM
Highest Channel / 10MHz / QPSK	Highest Channel / 10MHz / 16QAM
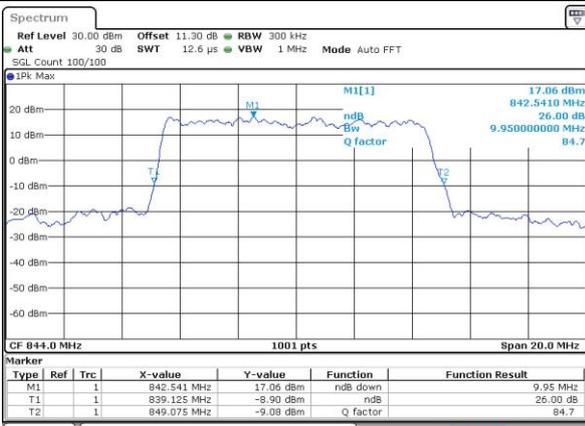
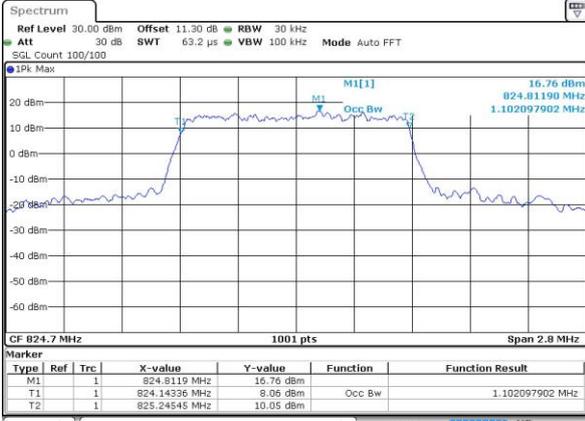## Occupied Bandwidth

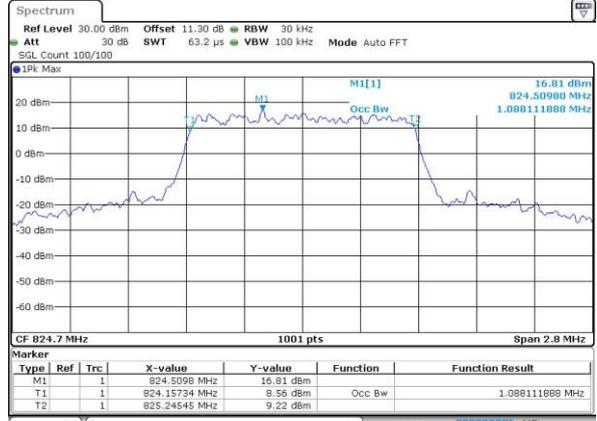| Mode	LTE Band 5 : 99%OBW(MHz)											
BW	**1.4MHz**		**3MHz**		**5MHz**		**10MHz**		**15MHz**		**20MHz**	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.1	1.09	2.71	2.7	4.5	4.48	9.05	9.03	-	-	-	-
Middle CH	1.09	1.1	2.72	2.71	4.49	4.51	9.01	8.99	-	-	-	-
Highest CH	1.09	1.1	2.71	2.72	4.48	4.48	9.03	9.05	-	-	-	-

LTE Band 5	
Lowest Channel / 1.4MHz / QPSK	**Lowest Channel / 1.4MHz / 16QAM**

Date: 2.NOV.2015 22:47:57

Date: 2.NOV.2015 22:15:03

Middle Channel / 1.4MHz / QPSK	**Middle Channel / 1.4MHz / 16QAM**
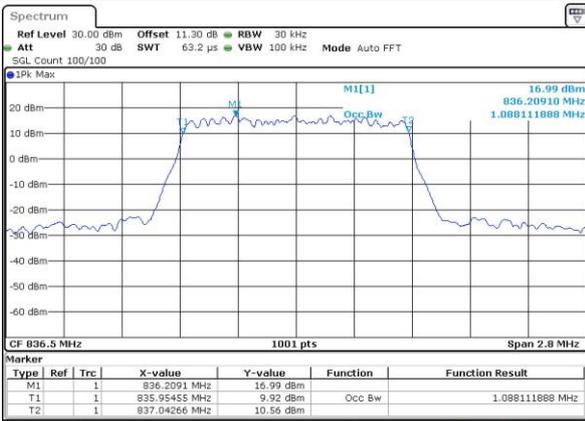
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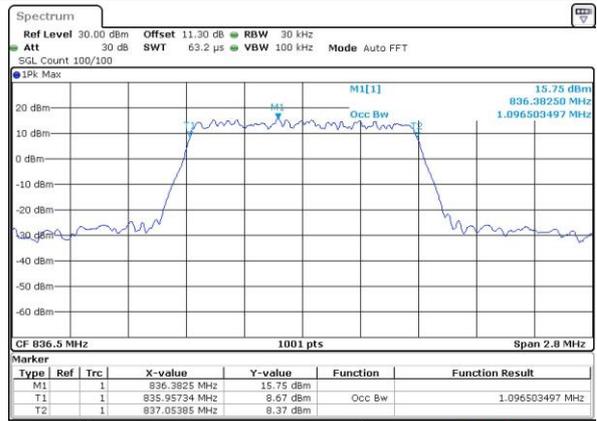
Date: 2.NOV.2015 22:25:11

Highest Channel / 1.4MHz / QPSK	**Highest Channel / 1.4MHz / 16QAM**
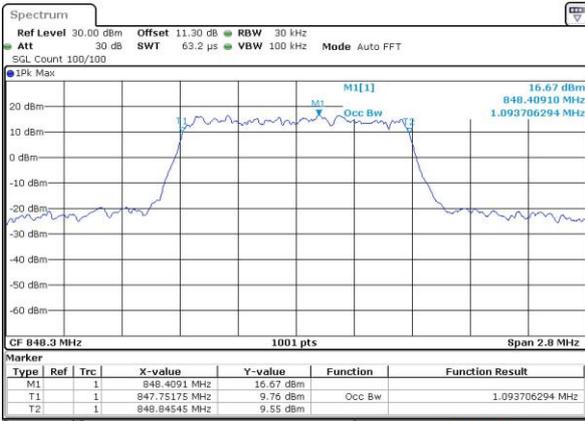
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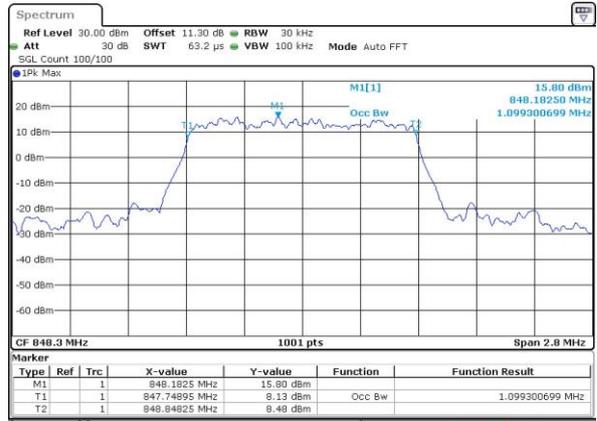
Date: 2.NOV.2015 22:27:42

LTE Band 5	
Lowest Channel / 3MHz / QPSK	**Lowest Channel / 3MHz / 16QAM**
Middle Channel / 3MHz / QPSK	**Middle Channel / 3MHz / 16QAM**
Highest Channel / 3MHz / QPSK	**Highest Channel / 3MHz / 16QAM**
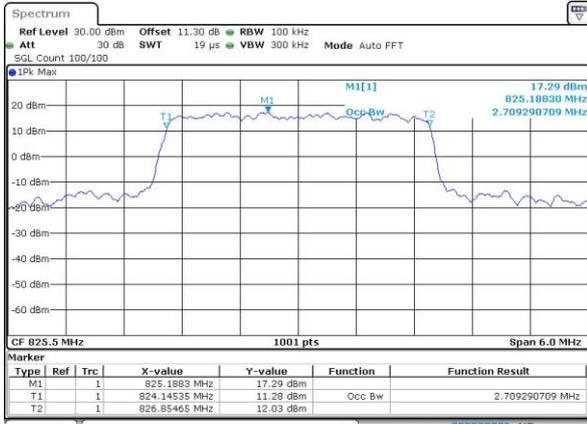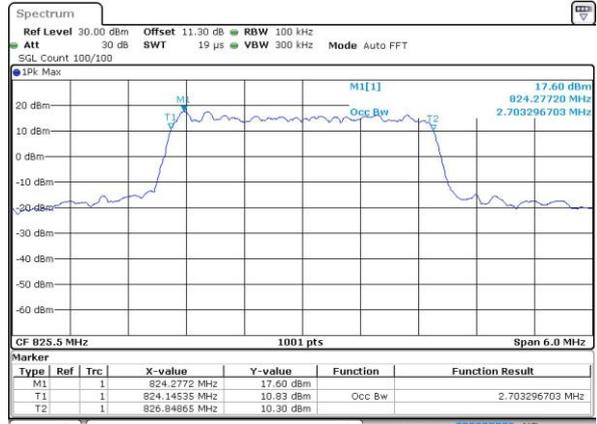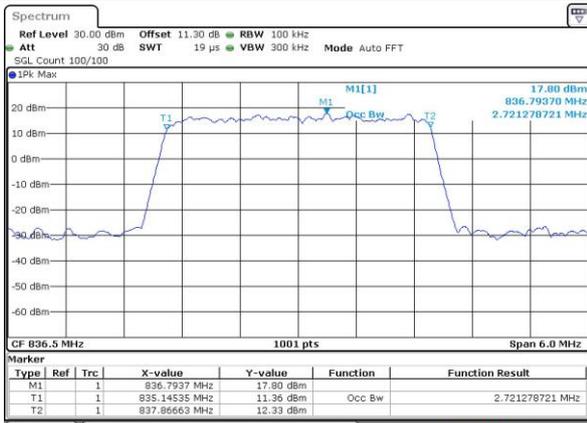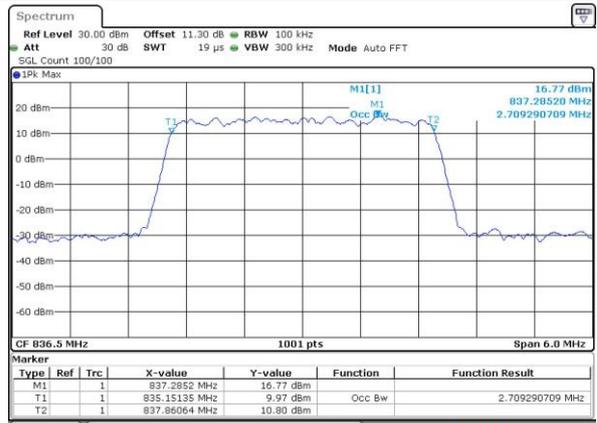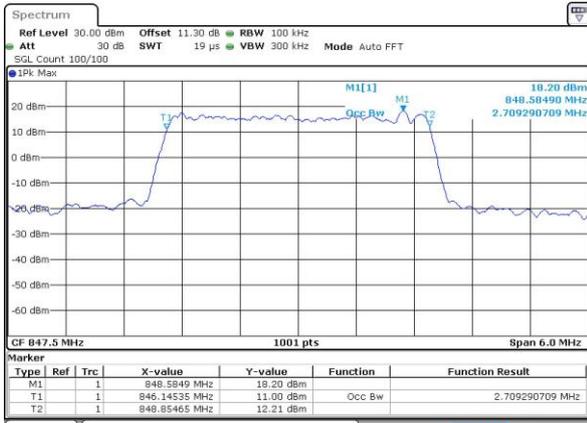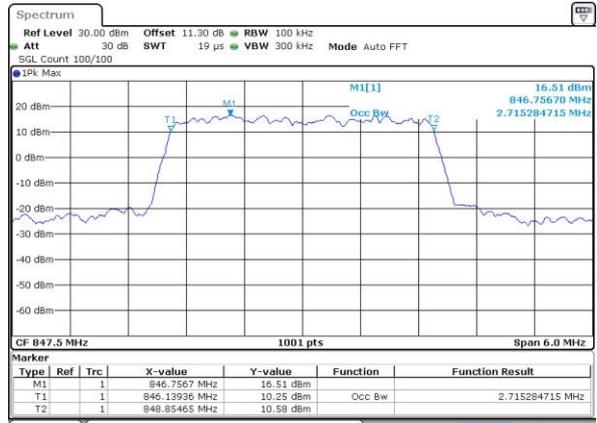
LTE Band 5	
Lowest Channel / 5MHz / QPSK	**Lowest Channel / 5MHz / 16QAM**
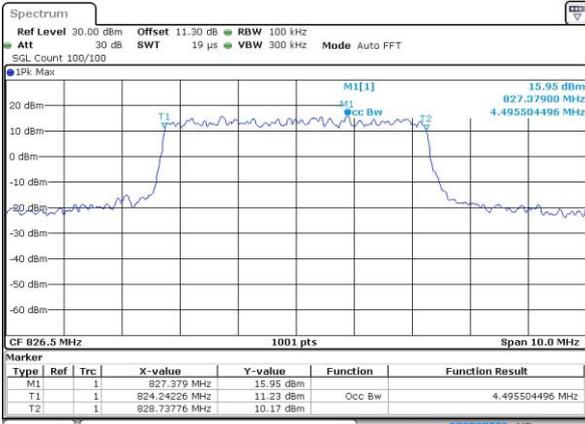
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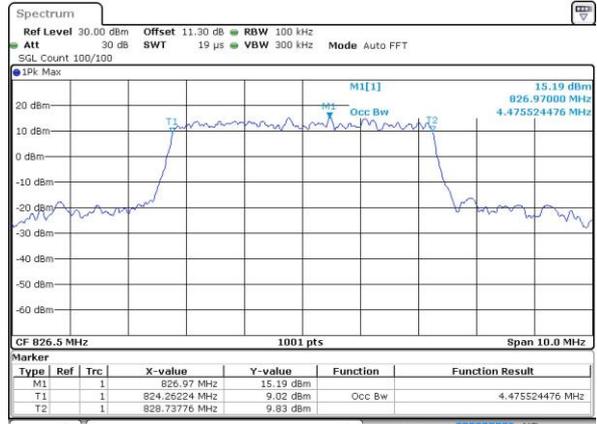
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Middle Channel / 5MHz / QPSK	**Middle Channel / 5MHz / 16QAM**
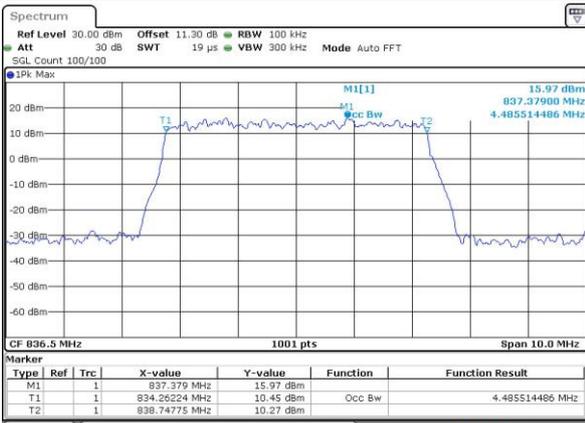
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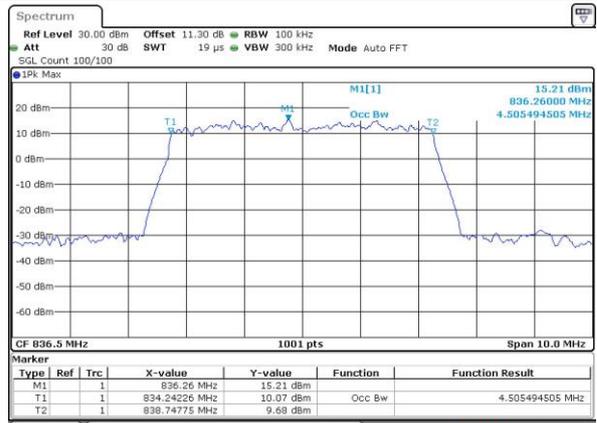
Date: 2.NOV.2015 20:00:58

Highest Channel / 5MHz / QPSK	**Highest Channel / 5MHz / 16QAM**
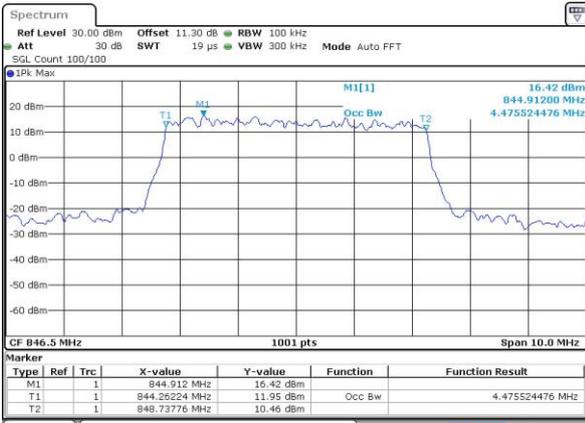
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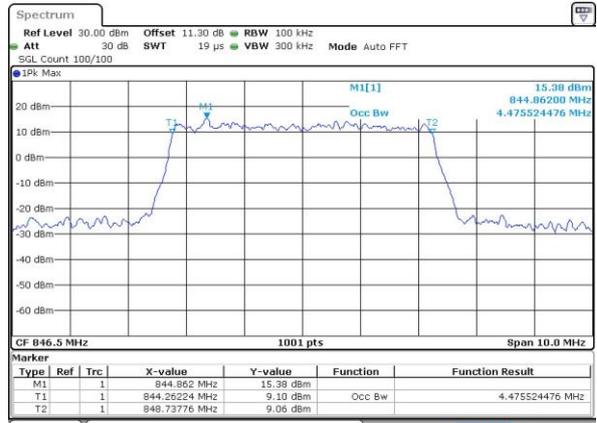
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LTE Band 5
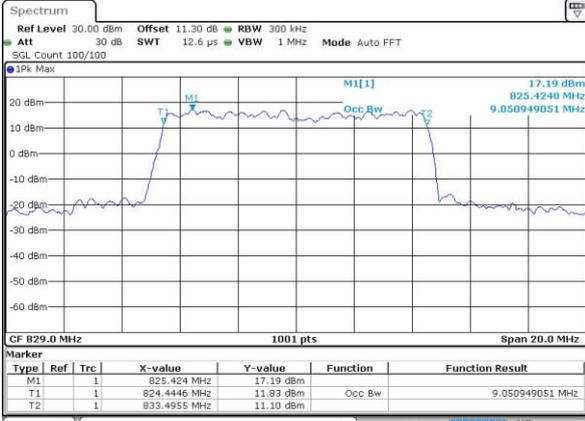
Lowest Channel / 10MHz / QPSK	Lowest Channel / 10MHz / 16QAM
Date: 2.NOV.2015 21:44:44	Date: 2.NOV.2015 21:44:55
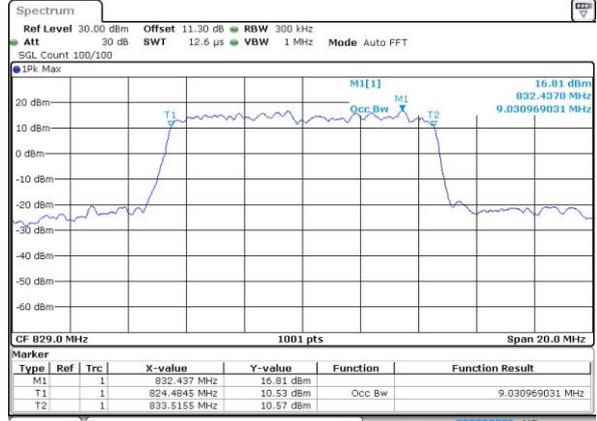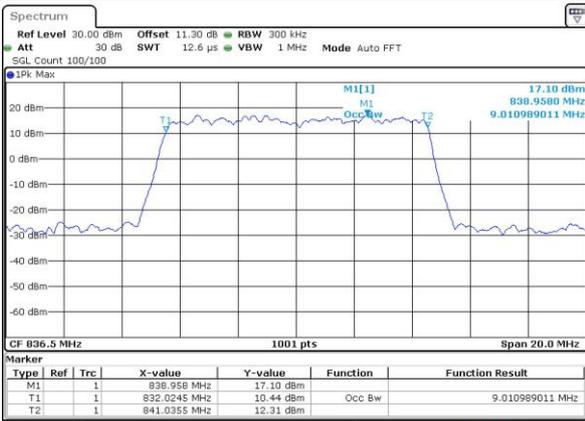
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM
Date: 2.NOV.2015 21:54:52	Date: 2.NOV.2015 21:55:02
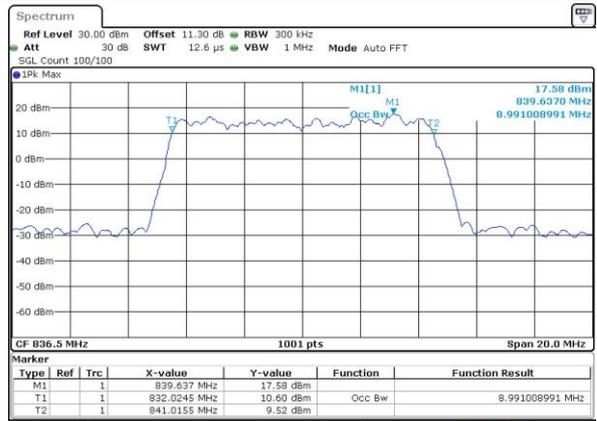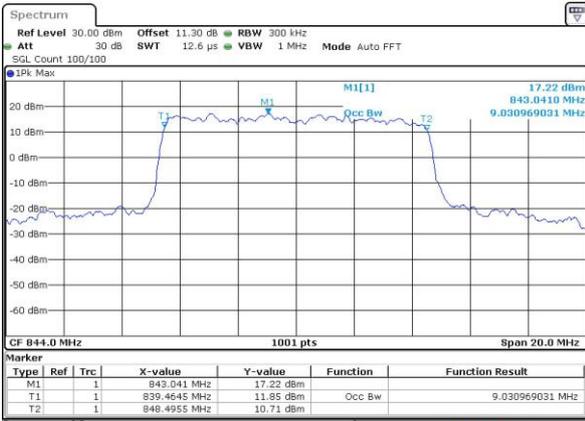
Highest Channel / 10MHz / QPSK	Highest Channel / 10MHz / 16QAM
Date: 2.NOV.2015 21:57:23	Date: 2.NOV.2015 21:57:33
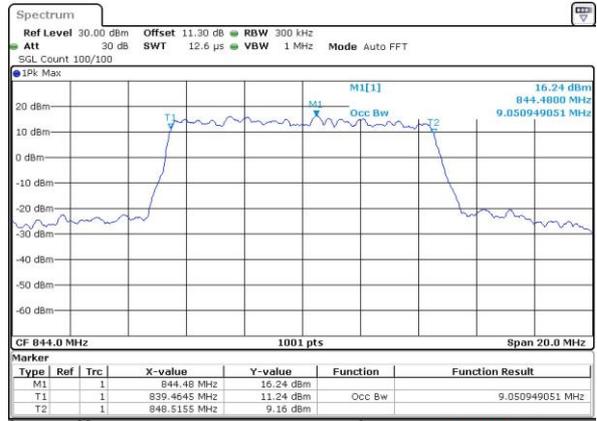
Conducted Band Edge

LTE Band 5 / 1.4MHz / QPSK	
Lowest Band Edge / 1RB	**Highest Band Edge / 1RB**

Lowest Band Edge / 1RB — Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.24476 MHz	-41.85 dBm	-28.85 dB
823.000 MHz	824.000 MHz	20.000 kHz	823.99950 MHz	-26.44 dBm	-13.44 dB
824.000 MHz	826.000 MHz	100.000 kHz	824.28472 MHz	21.64 dBm	-8.36 dB

Date: 2.NOV.2015 22:17:18

Highest Band Edge / 1RB — Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.000 MHz	849.000 MHz	100.000 kHz	848.77323 MHz	21.50 dBm	-8.50 dB
849.000 MHz	850.000 MHz	20.000 kHz	849.00050 MHz	-27.66 dBm	-14.66 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.54446 MHz	-42.66 dBm	-29.66 dB

Date: 2.NOV.2015 22:33:45

Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**

Lowest Band Edge / Full RB — Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.99600 MHz	-40.19 dBm	-27.19 dB
823.000 MHz	824.000 MHz	20.000 kHz	823.99850 MHz	-24.58 dBm	-11.58 dB
824.000 MHz	826.000 MHz	100.000 kHz	824.43856 MHz	14.29 dBm	-15.71 dB

Date: 2.NOV.2015 22:21:06

Highest Band Edge / Full RB — Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.000 MHz	849.000 MHz	100.000 kHz	847.93007 MHz	13.91 dBm	-16.09 dB
849.000 MHz	850.000 MHz	20.000 kHz	849.06843 MHz	-30.95 dBm	-17.95 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.45455 MHz	-36.69 dBm	-23.69 dB

Date: 2.NOV.2015 22:29:56